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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/696,868	10/30/2003	Jinn-Shing Chen	CFP00317 (18084/141)	9130

7590 05/04/2004
Alan D. Kamrath
Rider Bennett, LLP
Suite 2000
333 South Seventh Street
Minneapolis, MN 55402

EXAMINER

SCHIFFMAN, JORI

ART UNIT	PAPER NUMBER
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3677

DATE MAILED: 05/04/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/696,868

Applicant(s)

CHEN, JINN-SHING

Examiner

Jori R. Schiffman

Art Unit

3677

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 October 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Jack (US 4018257).

Regarding claim 1, Jack discloses a rivet structure comprising a main body 10 having a first end formed with an enlarged head 12 and a second end formed with an extended column 13,14, wherein the main body is provided with four opposite fixing plates 16, each of the four fixing plates having a tapered face 17, and each of the four fixing plates having a bottom face, and the bottom faces of the four fixing plates forming a square shaped configuration.

As to claim 2, Jack discloses the extended column having an inner wall formed with an inner thread 13.

Regarding claim 3, Jack discloses each of the four fixing plates having a pyramid shape, the shape surrounded by tapered face 17.

Referring to claim 4, Jack discloses the four fixing plates being arranged in a symmetrical manner.

In regards to claim 5, Jack discloses each of the four fixing plates being formed on a connection between the enlarged head and the extended column.

Regarding claim 6, Jack discloses each of the four fixing plates being formed on a side of the enlarged head and being extended to a periphery of the extended column.

As to claim 7, Jack discloses the tapered face 17 of each of the four fixing plates having a thickness gradually reduced from the enlarged head to the periphery of the extended column.

Referring to claim 8, Jack discloses the main body being riveted on an article S which is formed with a rivet hole 48, and the tapered face of each of the four fixing plates of the main body being penetrated into a periphery of the rivet hole of the article, thereby forming a tapered locking groove in the periphery of the rivet hole of the article, so that the main body is locked in the rivet hole of the article rigidly and stably, thereby preventing the main body from being rotated relative to the article.

As to claim 9, Jack discloses the rivet hole of the article having a diameter equal to an outer diameter of the extended column of the main body once the rivet is installed (Fig. 5).

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following patents are cited further to show the state of the art with respect to rivets in general: U.S. Pat. No. 2949142 to Sumerak, U.S. Pat. No. 1873869 to Carr, and U.S. Pat. No. 5564873 to Ladouceur et al.

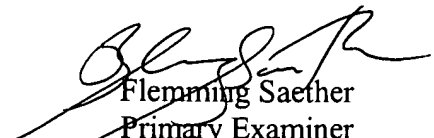
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jori R. Schiffman whose telephone number is 703-305-4805. The examiner can normally be reached on M-Th, and every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Swann can be reached on 703-306-4115. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jori R. Schiffman
Examiner
Art Unit 3677

JS


Flemming Saether
Primary Examiner